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Dayanand Medical College & Hospital

LUDHIANA.

DEPARTMENT OF SOCIAL & PREVENTIVE MEDICINE

Annual Report

1989

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FORE WORD

It is gratifying to present our first report of the functioning of the Deptt. of Social & Preventive Medicine, Dayanand Medical College, Ludhiana. The Deptt. has been in existence for 25 years but this is the first attempt to quantify the work & achievement. Since the population served in Rural and Urban Centres were not covered through out the year various rates e.g. Birth, Death, IMR has not been worked out. However the data do present a trend and form a base line for the subsequent reports. All these achievements are due to utmost cooperation and dedicated work of Teaching and Paramedical staff at college and Training Centres both Urban and Rural. We hope to improve further during ensuing year and show better achievement in the field of Training and services to the population.

(Dr. Ved Prakash)
MD. DPH.
Prof. & Head,
Deptt. of S.P.M.
D.M.C. Ludhiana.

INTRODUCTION

The year 1989 has been a landmark in the history of Deptt. of Social & Preventive Medicine, Dayanand Medical College & hospital Ludhiana. During this period the deptt. acquired its flagship - the Rural Health Centre at Pohir. This rural health centre functioning under the name and style of Baba Nirmal Singh Samra Charitable Hospital, is a joint venture between the D.M.C. and Baba Nirmal Singh Public Charitable Trust. The Chief Trustee S. Malkiat Singh takes an active interest in all the activities of the hospital besides providing the liberal financial aid for meeting the recurring expenditure.

During the year 1988-89 the department has been fortunate in having the full complement of teaching faculty and other services personnel and as such has been able to undertake a number of activities expected from the community medicine deptt. of a teaching hospital. Theye are reflected in the various sections of this report.

The deptt. is administratively also divided into 4 sections

1. The Head Quarters
2. Rural Training Centre, Pohir
3. Rural Training Centre, Humbran
4. Urban Training Centre at Dresi Ground, Ludhiana.

HEAD QUARTERS (DEPTT. OF S.P.M.)

STAFF : Following is the staffing at the Head Quarters :

Sr.No.	Name	Qualifications	Designation
1.	Dr. Ved Prakash	MBBS. DPH. MD	Prof. & Head
2.	Dr. R.K. Sachar	MBBS MNAMS (MCH) Diplomate N.B.(SPM)	Reader
3.	Dr. Jitendra Verma	MBBS. MD	Lecturer
4.	Dr. G.D. Jain	MBBS. DPH	Epidemiologist
5.	Dr. P.J.S. Gill	PhD	*Lecturer in Health Education.
6.	Mr. R.K. Soni	M.Sc. (Statistics)	*Lecturer in Statistics.
7.	Sh. D.P. Sharma		Artist/Modellor
8.	Ms. Manju Gupta	B.A.	Clerk/Typist

(* P.P.P. Unit)

(** Dr. Sandeep Dhawan, MBBS, Demonstrator left on completion of tenure).

In addition the following subordinate staff is also present

Drivers - 3

Peons - 2

Safai Wala - 1

Visiting Staff : Dr. A.S. Malhotra, MBBS. DPH. MD. FRIPHH is a Visiting Prof.

ACTIVITIES :

i) Under Grduate Training : Obviously the main activity is the undergraduate teaching. In this field newer methods of teaching/ learning have been introduced subsequent to our faculty members undergoing training at the National Teacher's Training Centre, Chandigarh. The training programme of the final years students have been further itensified and methods like seminars, social

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case history etc. have been introduced. The greatest step in the improving of training has been that the entire practical training of undergraduate students is in the field practice area where the students are allotted the families and they work with these families for entire period. The practical of the University examination is being conducted in the FAMILY itself.

During this period the deptt. has acquired two new vehicles - a mini bus and a twenty seven seater Swaraj Mazda bus. This has provided considerable boost to the teaching/training programmes.

ii) Interns Training : Besides academic teaching to the under-graduates, another important activity of the deptt. is the training of the interns. During this period 176 interns received training for a period of three months each. They are provided training in Urban as well as rural areas. During their training the interns are given special opportunities to look for themselves at the working of a rural health centre. School health work and working in the integrated child development services work is an important aspects of the training programme.

iii) Research Project : Every batch of interns is divided into 3-4 sub-groups. Each such group is allotted a project. This group works independently under the guidance of a Senior member of staff and submits their report at the end of session.

The following research projects have been undertaken by the interns :

1. A study of Secondary Sex Ratios.
2. A study of Gender Differences in Health and Medical care allocation.

Contd...4....

3. An epidemiological study of [illegible] in an urban slum.
4. A study of social situation of aged in Rural Punjab.
5. A study of Nutritional profile of Children under 5 Yrs. in an urban slum.
6. A study of various factors influencing acceptance of Family Planning Measures.
7. A study of Health Problems in school children.
8. A study of Awareness, Utilization of and Expectations from Health Services.
9. An evaluation of the ICDS Services in 6 Anganwaris.
10. A study of socio-economic & Health profile of Brick kiln workers in Ludhiana Distt.
11. A study of Mumps epidemic in Industrial population.
12. A comparative study of IQ of children attending and not attending anganwaris.
13. Effect of sex of preceding child on birth to conception interval.
14. Effect of maternal rest on birth weight.

A number of papers based on the above studies have been published in National and International journals while other papers are under preparation .

iv) Participation in the ICDS Programme : Active participation in the ICDS is being carried out. Senior members of the staff repeatedly visit Govt. Anganwari Training Centre, Ludhiana, for providing practical and theoretical training to Anganwari Workers. One of the senior staff member is a Distt. Health Advisor ICDS for

Contd...5...

Urban I & II projects. The health team from the deptt. have visited 10 anganwaris and examined 342 children and delivered 24 health talks in the community.

v) Other Research Activities : Under the auspices of UNICEF a survey was carried out on Missed Opportunities in Immunization and this was presented by Dr. R.K. Sachar at Himachal Institute of Public Adminstration in Shimla in May 1989 at a UNICEF Workshop.

vi) Conferences, Training Programmes & Workshops Attended :

NAME OF THE FACULTY	CONFERENCES ATTENDED
Dr. (Col.) Ved Prakash	"Network" 10th Anniversary Workshops* Netherlands.
	WHO Assisted State-level Workshop on Strengthening Training of Family Welfare in graduate Medical Edn. at Srinagar (J & K).
Dr. R.K. Sachar	International cum 9th Annual Conf.* of Indian Society of Health Administrators at Begalore.
	Educational Sciences Technology for the Teachers of Health Professionals at Chandigarh.
	Course on Health System Research - New Delhi, at NIHFW.
	UNICEF Workshop* on Scaling up of Child Survival activity at Shimla.
	10th Annual Conference of ISHA at Calcutta*
	Workshop on "Health & Nutrition of Women" at NIPCCD, New Delhi.
Dr. Jitendra Verma	Annual Conference of IAPSM at Gwalior.

* Presented papers also.

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vii) PAPERS PRESENTED AT CONFERENCES/PUBLISHED/ACCEPTED FOR PUBLICATION BY FACULTY OF THE DEPTT. :

PAPERS PUBLISHED :

1. "Risk Approach - A commonsence Approach for Safe Motherhood and Child Survival" - Published in Jr. of Family Welfare Sept. 1988.
2. "Secondary Prevention of Cancer Breast by regular Self Breast Examination. Some consideration involved in educating Indian Women". Published inIndian Jr. of Bioresearch Vol. 6 No. 3.
3. "Childhood Malnutrition and Development - A Paradox" published in Indian Jr. of Maternal and Child Health Vol. 1 No. 1.
4. "Missed Opportunities for Immunization" published in Indian Jr. of Maternal and Child Health Vol. 1 No. 1
5. Ten Steps of Problem Solving Methodology published in 'Sehat' March 90.

PAPERS ACCEPTED FOR PUBLICATION :

1. "Unwanted, Unwelcome and Unborn - The Female Feotus" accepted for publication in World Health Forum.
2. "Sex Selective Fertility Control - An outrage" accepted for publication in Jr. of Family Welfare Sept. 1990.
3. "Gender Differences in Health Care" accepted for publication in Tropical Paediatrics.
4. "Improving dietary intake [illegible] education by village health workers" accepted for publication in World Health Forum.
5. Sex Bias in Health & Medical Care Allocation" accepted in Indian Jr. of [illegible]

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6. "Effect of Sex of Preceding Child on Birth to Conception Interval" accepted in Indian Jr. of Maternal and Child Health Vol. 1 No. 2.

PAPERS SUBMITTED FOR PUBLICATION :

1. "Safe Motherhood & Child Survival" - Making the possibility become a reality through a relevant medical curriculum" submitted to Indian Jr. of Medical Education.
2. "Will anyone give them a hearing" submitted for publication to Swasth Hind.

INDIAN MATERNAL AND CHILD HEALTH ASSOCIATION : The Deptt. has the privilege of having the headquarters of Indian Maternal and Child Health Association in its premises. This association which has the blessings of the authorities and management of Dayanand Medical College and Hospital has done pioneering work to bring together on a common platform, professionals interested in the promotion of health and welfare of mothers and children. This association also publishes a quarterly journal titled 'Indian Journal of Maternal and Child Health' which has been indexed by IMSDOC. The journal has had the honour of having papers and articles contributed to it by some of the well known figures both from India and abroad.

RURAL HEALTH CENTRE POHIR

INTRODUCTION

This ten beded rural hospital is situated on the Ludhiana-Sangrur highway at a distance of 26 kms. from the Dayanand Medical College & Hospital, has been built by S. Malkiat Singh Saura and other members of his family to commemorate the memory of their late father Capt. Nirmal Singh Saura. It is being run as a joint venture with the Deptt. of Social & Preventive Medicine, Dayanand Medical College, Ludhiana as rural training centre.

FACILITIES

The hospital has indoor and outdoor facilities backed up by specialists cover from the main hospital. The hospital has a well equiped pharmacy, laboratory facilities and a X-ray unit. Most of the staff is residential and emergency services including ambulance services are avilable round the clock. Most of the services are provided free of cost.

Hospital Services : Table I shows the utilization of hospital based services provided during the period under reporting.

TABLE 'I'

RHC Pohir & Dayanand Medical College & Hospital, Ludhiana. POHIR 1989

SERVICE	NUMBERS
O.P.D. PATIENTS	21,5[illegible]
NEW PATIENTS	10,052
OLD PATIENTS (RE-VISIT)	11,555
PATIENTS ADMITTED	[illegible]

Table I Contd....

SERVICE	NUMBERS
PATIENTS TRANSFERRED TO D.M.C.	48
PATIENTS REFERRED TO D.M.C.	375
O.P.D. [illegible]	43
X-RAY'S DONE	124
DELIVERIES	15
NO. OF LAB. INVESTIGATIONS PERFORMED (Routine/Biochemistry/Blood Group etc.)	2730

Table II shows the utilization of specialists services.

TABLE 'II'

UTILIZATION OF SPECIALIST SERVICES AT R.H.C. POHIR 1989

SPECIALITY	NO. OF PTS.
MEDICINE	312
PAEDIATRIC MED.	416
OBS. & GYNAE.	349
OPHTHALMOLOGY	820

National Health Programmes : These Tables do not reflect immunization work or other activities pertaining to other National Health Programmes. However it is emphasized that all activities of various National Health Programmes are carried out intensively but

Contd...10.....

where the supplies are obtained.

[illegible] :

[illegible] once a week. Besides providing expert opinion to the [illegible] include participation of these faculty members in training of undergraduate students/interns so as to develop a comprehensive integrated community based learning.

Home Based Services : Five villages within a radius of 2-3 km. of the rural training centre have been taken up for intensive home based care. Every family in these villages is registered and their complete health and demographic profile is maintained using a well developed Management Information System, which ensures continuity of care. While routine care is provided to all people, special emphasis is placed on providing care to the vulnerables using a 'High Risk' approach. The home based care is provided by paramedical staff and the interns posted there accompany the home visiting teams so as to get first hand information of the family situation. Immunization services are provided at door steps. The senior faculty and medical officers closely supervise the work using a well developed [illegible]

[illegible]

Table III [illegible]

Cont.....11.....

HEALTH AND VITAL STATISTICS OF VILLAGES ATTACHED TO R.H.C. POHIR AS ON 31.12.89

	KALARH	POHIR	LEHRA	KHERA	JAGER.	TOTAL
TOTAL POPULATION	1785	2183	1461	1499	1669	8597
NO. OF FAMILIES	307	350	245	265	312	1479
NO. OF ELIGIBLE COUPLES	252	294	194	198	244	1182
E.C. %	14.1	13.4	13.2	13.2	14.6	13.7
F.P. STATUS :						
TUBECTOMY	55	41	45	29	24	194
VASECTOMY	-	3	4	-	6	13
IUCD	14	40	21	13	17	105
CC	12	52	25	31	6	126
OTHERS	1	-	0	-	-	1
E.F.P. COV. %	29.4	36.7	41.9	28.7	20.1	31.8
CHILDREN SERVICES						
NO. OF 0-5 CHILDREN	201	250	132	155	213	951 (11.0%)
IMMUNIZATION STATUS						
DPT (3DOSES/BOOSTER)	159	221	112	112	149	753
%	79.1	88.4	84.8	72.2	69.9	79.1
POLIO (")	159	221	112	112	149	753
%	79.1	88.4	84.8	72.2	69.9	79.1
BCG	147	231	117	125	132	752
%	73.1	92.4	88.6	80.6	61.9	79.0
MEASLES*	103	190	105	96	94	588
EVENTS IN 1989 (1.1.89 to 31.12.89)						
DELIVERED	23	41	30	36	36	166
AREA MOTHERS						
NO. PROTECTED BY 2 DOSES/BOOSTER OF T.T.	23	38	30	27	34	152
%	100	92.7	100	75	94	91.5
NO. OF STILL BIRTHS	-	2	4	-	1	7
NO. OF LIVE BIRTHS	23	39	26	36	36	160

[illegible] study into our OPD's at the rural training centre. A close enquiry into their medical status [illegible] a decision away from the target of [illegible], these people do not have even the very basic health services available to them. This was revealed after the detailed enquiry by a team on the [illegible] of a number of brick kilns following the study, mobile services [illegible] these services for some of these brick kilns have been started.

Referral Services : The rural training centre has a round the block ambulance cover and patients needing tertiary care are transfered to the main hospital. All such transferred/referred patients get a 40% discount as a matter of policy on their hospitalization bills. This facility is extended to many of the patients referred from any of the centres of this [illegible]. Patients needing more financial help are delt with on a [illegible] basis.

Community Based Research: In addition to varius projects outlined above [illegible] community based thesis for M.D. Medicine of Punjab University on the subject of Coronary Risk Factors has been completed.

[illegible] following is the staffing at Rural Training Centre, Pohir

Sr. No.	Name	Designation
.	Dr. Rajiv Sehgal	Medical Officer I/C.
.	Dr.(Mrs.) Saroj Aggarwal	[illegible] Officer
.	Ms. Usha Rani	A.N.M.
.	Ms. Inderjit	A.N.M.
.	Ms. Jaswant Kaur	[illegible]
.	[illegible]	[illegible]
.	[illegible]	A.N.M.
.	Ms. Sukhwinder Kaur	A.N.M.

Contd...14....

Sr. No.	Name	Description
9.	Ms. Kamla Rani	A.N.M.
10.	Ms. Ranjit Kaur	A.N.M.
11.	Sh. Raj Kumar	Lab. Tech.
12.	Ms. Davinder Kaur	Dispenser
13.	Ms. Paramjit Kaur	Clerk-cum-Storekeeper
14.	Ms. Avtar Kaur	Cashier

In addition, the following subordinate staff is also present :

Driver	- 1
Safai Sewak	- 2
Chowkidar	- 2
Cook	- 2
Mali	- 1
F. Wd. Attd.	- 1

RURAL TRAINING CENTRE, HUMBRAN

This is located at the Govt. Primary Health Centre at a distance of 16 km. from the main hospital. The department has adequate hostel facilities there.

Under the scheme of ROME specialists services are provided in this centre. The facilities available here are also used for training of interns and undergraduates.

URBAN HEALTH CENTRE

The Urban Health Centre is located at Dresi Ground in Ludhiana at a distance of 3 kms.

Contd....15.....

Staff : Following is the staffing at Urban Health Centre :

Sr.No.	Name	Designation
1.	Dr. (Mrs.) K. Thaper	Medical Officer
2.	Mrs. Surendra Pawatra	L.H.V.
3.	Mrs. Surinder Nanda	A.N.M.
4.	Mrs. Rita Vatsa	Storekeeper-cum-Clerk

In addition, the following subordinate staff is also present :

[illegible] - 1

Safai [illegible] - 1

O.P.D. Services : The patients needing tertiary care are referred to the main hospital. All such transferred/referred patients get a 40% discount as a matter of policy on their hospital bills. Table IV shows utilization of OPD services at U.H.C. :

TABLE 'IV'

UTILIZATION OF O.P.D. SERVICES AT U.H.C., 1989

O.P.D. PATIENTS	15728
NEW PATIENTS	3927
OLD PATIENTS	11801
PATIENTS REFERRED TO D.H.C.	259

Home Based Care : Home based care using the same methodology as in U.H.C. Pohir is provided to approximately 600 families living around the centre. Over half the families served by the centre belong to [illegible] of the poor and [illegible]

Cont....16.....

[illegible], Gujrat etc. The problems of these families extend beyond the medical and health frontiers, and as such, within our limited resources we try to help them in these matters (e.g. installation of hand pumps, provision of sanitation facilities by coordinating with municiple corporation etc.). Table V gives an health and [illegible] profile of the co[illegible]y served under the [illegible] programme.

TABLE 'V'

HEALTH AND VITAL STATISTICS OF AREAS ATTACHED TO U...C. AS ON 31.12.1989

	AREA A	AREA B	AREA C	AREA D	TOTAL
TOTAL POPULATION	1807	1523	1451	1002	5783
NO. OF FAMILIES	351	322	309	225	1207
NO. OF ELIGIBLE COUPLES	256	231	214	160	861
F.P. STATUS :					
[illegible]	51	54	40	30	175
VASECTOMY	6	17	7	4	34
IUCD	6	4	17	7	34
[illegible]	24	56	60	42	182
[illegible]	[illegible]	59.7	57.0	55.7	[illegible]
CHILDREN SERVICES :					
[illegible]	189	191	129	87	596 (10.3%)
[illegible] :					
OPT (3DOSES/BOOSTER)	185	185	124	76	570
%	97.8	96.8	96.1	57.3	95.6

Contd...17.....

	AREA A	AREA B	AREA C	AREA D	TOTAL
POLIO (3 DOSES/BOOSTER)	185	185	124	76	570
%	97.8	96.8	96.1	87.3	95.6
BCG	180	176	120	70	546
%	95.2	92.4	93	80.4	91.6
EVENTS IN 1989 (1.1.89 to 31.12.89)					
DELIVERED AREA MOTHERS	28	34	17	8	87
NO. PROTECTED BY 2 DOSES/BOOSTER OF T.T. (%)	28	34	17	8	87 (100%)
TOTAL DELIVERIES	28	34	17	8	87
LIVE BIRTHS	28	34	17	7	86
STILL BIRTHS	-	-	-	1	1
TWIN DELIVERIES	-	-	-	-	-
ABORTIONS	1	1	2	-	4
TOTAL DEATHS	10	8	5	2	25
INFANT DEATHS	2	1	3	-	6
TODDLER DEATHS	-	2	-	-	2
MATERNAL DEATHS	-	2	-	-	2

NOTE : Rates have not been calculated since Area C & D were covered only for part of 1989.

Referral Services : Since this area is very near to the main hospital and population is very needy, it is obvious that large number of patients have to be referred to the main hospital. Besides being provided financial help, every referred patient is the responsibility of an intern posted at the Urban Health Centre till all consultations/ investigations are complete.

Contd...18.....

FUTURE PLANS

1. Dayanand Medical College is a associate member of Network of Community-Oriented Educational Institutions for Health Sciences and as such plans are under way for the developing a system of community oriented problem based learning.
2. Creation of Health Posts in villages with one full time multipurpose worker manning these posts.
3. Provision of dental services at Rural Training Centre at Pohir.
4. Provision of mobile traum care unit to be located at Rural Health Centre, Pohir.
5. Research projects on health needs of adolescent.
6. Expausion of RHC Pohir - New wing for the hospital is under construction and will start functioning by July 1990.

Medical Superintend
Dayanand Medical College & Hosp
LUDHIANA.